Senior Design - Spring 2006
EE/CpE 424

Class 1 – 1/17/06
Outline

• Announcements
• Spring 2006 tasks
• Fall 2005 grades
• Upcoming priorities, class schedule
Announcements

• New Senior Design TA: Palak Amin ’03  pamin@stevens.edu

• 91 students were registered Fall ’05,
• 86 (Web for Faculty) or 87 (WebCT) are currently registered.
  – Let me know ASAP if there are any registration problems.
Senior Design Tasks – Spring ‘06

- Build, debug, test
- Publish interim project report
- Develop final report
- Submit final report
- Oral/slide/poster presentations/demos
- Web site updates (15th)
- Weekly status Group Eff. Reports (Monday)

Today

Design Day: 4/27
Senior Design Tasks – Spring ‘06

20% Publish interim project report
25% Develop final report
35% Oral/slide/poster presentations/demos
10% Submit final report
10% build, debug, test

Web site updates (15th)
Weekly status
Group Eff.
Reports (Monday)

2/1 3/1 4/1 5/1/05

Design Day: 4/27
Senior Design Grading Fall ‘05

Each group’s faculty advisor determined 80% of group’s grade. Each advisor set criteria appropriate to the project and their policies. For groups I advised, this part of the grade was based on:

- Use of appropriate engineering judgment 25%
- Appropriate level of effort 25%
- Establishing a realistic schedule and adhering to it 25%
- Responsiveness to advisor feedback 25%

As course coordinator I determined 20% of grade, based on:

- Timeliness, completeness of deliverables 20%
- Initial project proposal 20%
- Presentation 10%
- Web site 10%
- Final project proposal/Component list 20%
- Overall Effort 20%
Senior Design Fall ’05 Final Grades

Note: 4 group grades are effective average grades – members were given individual grades
Components of Coordinator Grade

- Midterm
- Final
- Weekly
- Presentation
- Web Site
- Hours
Many consistently excellent groups
Many consistently excellent groups

Some with outstanding efforts

Components of Coordinator Grade

Midterm
Final
Weekly
Presentation
Web Site
Hours

Many consistently excellent groups

Some with outstanding efforts

Midterm
Final
Weekly
Presentation
Web Site
Hours
Marginal efforts impacted a few

Many consistently excellent groups

Some with outstanding efforts
Grade Correlation

\[ R^2 = 0.2885 \]
Course Metrics

Correlation between group self assessment and advisor assessment
Deliverables Schedule

• Weekly reports are due *weekly* by Noon, Monday.
  – Both Group Weekly reports and individual group effectiveness reports.
  – To ensure proper credit, email separately, include group number and type of report in email subject

• Web sites will be graded the 15th of each month. *All* weekly reports, interim and final reports, presentations, and brochures must be posted on web site immediately after due date, hosted on panda.ece.stevens-tech.edu

• Interim project report due Tuesday after Spring Break (3/21/05)

• Design Day is April 26th
  – Details will be provided later including Design Day brochure requirements
  – Electrical power, network connections, and other needs will be identified ~midterm

• Final Report due Tuesday, May 2nd
Other items

• Senior Design expense reimbursement:
  – At the end of the semester
  – For items required for Senior Design
  – $250 per group
  – Items that are paid for by the ECE Department must be returned to the ECE Department

• Class schedule:
  – If we meet, it will be 3-4 on Tuesday (based on last semester’s survey, subject to change)
  – Classes will meet less frequently in Spring 06 than in Fall 05
    • You should be working with groups and advisor.

• Lab equipment and supplies
  – See me for specialty items and passive components
  – Coordinate PCB design, lab space access with Palak Amin
  – See Stu Tewksbury or me to borrow test equipment

• Rochester Institute of Technology IEEE Student Design Competition
Shameless Plug

• If you find one of your electives cancelled due to lack of enrollment or if you just want to take an timely, exciting, relevant course, consider:

  CpE450 – Real-time Embedded Systems  
  Tuesday 10 – 12:50, McLean 106  
  Free copies of Circuit Cellar each month to all enrolled students